

**From:** Stephen Kalland [sskallan@ncsu.edu]  
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**To:** Hodge, Starlette [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e0ff0c69c1b340779072197bd72d90df-sshodge1]; Martin, Kevin N [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=aa9fc8fadd10451db8b229aa3735f841-kmmartin2]; Tarr, Jeremy M [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=98859532088e4437968231eb6fef6b70-jmtarr1]  
**Subject:** [External] Training classes, community solar, energy efficiency updates & more!

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# NC CLEAN ENERGY TECHNOLOGY CENTER

October 2017



**DONATE**

## Our Mission

The N.C. Clean Energy  
Technology Center advances  
a sustainable energy economy

## Certificate in Renewable Energy Management

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by educating, demonstrating and providing support for clean energy technologies, practices, and policies.

## Upcoming Events

### SMART Series: The Role of Data Analytics in Revolutionizing the Energy Market

Nov 2, 2017  
RTP, NC

### Energy Week at Duke University

Nov 5-10, 2017  
Durham, NC

### 2017 Clean Energy Finance Conference

November 15, 2017  
Hope Valley Country Club  
Durham, NC

Save the date for:

**First Responder Clean Transportation Demonstration Day**  
February 28, 2018  
**Contact Rick Sapienza**

### UNC Clean Tech Summit

March 1-2, 2018  
Friday Center @ UNC  
Chapel Hill, NC

### State Energy Conference of North Carolina

April 17-18, 2018  
McKimmon Conference & Training Center  
Raleigh, NC  
**SPONSOR THIS EVENT**

(upcoming NCCETC events)

## Training Spotlight

### Advanced Design & Installation of PV Systems

November 13-17, 2017

### Solar Storage

November 28-30, 2017

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Dates for our 2018 Certificate in Renewable Energy Management (CREM) program have been announced and are open for registration! Don't miss out on the first session happening from February 1 to March 9, 2018.

### What is CREM?

This in-person and online hybrid course is a program on technology, policy and finance for renewable energy project development.

CREM graduates will be able to:

- Understand the fundamentals of how solar electric and solar thermal technologies work
- Describe renewable energy policy terminology
- Understand how federal, state and local policies, incentives and regulations can affect the health of the renewable energy industry
- Navigate the current financial landscape and assess different financial models
- Get NABCEP Technical Sales education credits for the NABCEP PV Technical Sales Certification Exam *(must meet other NABCEP requirements)*

The 40-hour CREM program is also part of the [Renewable Energy Technologies Diploma Series](#). If you wish to complete the Diploma Series, save 20% by registering for our [Packaged Programs](#)!

[Click here for more information](#)  
[Click here to register](#)

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**It's a Wrap!**

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Everblue  
December 4-8, 2017

**BPI Building Analyst w/  
Everblue**  
December 11-14, 2017

The Center's Training program offers a number of special training sessions, conferences, and webinars for clean tech workers.

[Click here](#) for a complete list of the classes we offer.

### Newsletter

[Share](#) this email newsletter with a friend!

[Manage](#) your subscription.

### Keep in Touch!

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For questions and comments regarding our newsletter or the NCCETC email:  
[shannon\\_helm@ncsu.edu](mailto:shannon_helm@ncsu.edu)



The NCCETC, in partnership with the NCDOT and many generous sponsors, hosted 300 sustainable transportation stakeholders for a three-day event that showcased the technologies, policies, and vehicles that support alternative fuels and clean fleet practices.

Three different speaker tracks gave attendees the opportunity to dive deeper into various topics while learning from over 50 fleet and industry experts. The Data & Solutions Track showcased developments in tools for vehicle sharing, telematics, smart roads, and data management. The Alternative Fuels & Advanced Technology Track provided fleet manager perspectives on topics including adoption of alternative fuels, idle reduction, and emission reductions. The Policy & Technology Track highlighted current topics including planning for zero emission vehicles, autonomous vehicles, the VW Settlement funds, and creating partnerships.

Keynote speakers included: Dr. Eric Warren of Richard Childress Racing, Trev Hall from the US DOE Clean Cities, Tom Johnson and 100 Best Fleets, Alycia Gilde with CALSTART, Jon Ells from the City of New York Fleet Sustainability Division, Keith Leech from Sacramento County, Alexander Barton with NAFA.

On Friday, the NC Smart Fleet Luncheon acknowledged fleets and individuals who have made significant contributions to reducing emissions, improving efficiencies, and supporting the growth of alternative fuels and sustainable transportation practices in North Carolina.

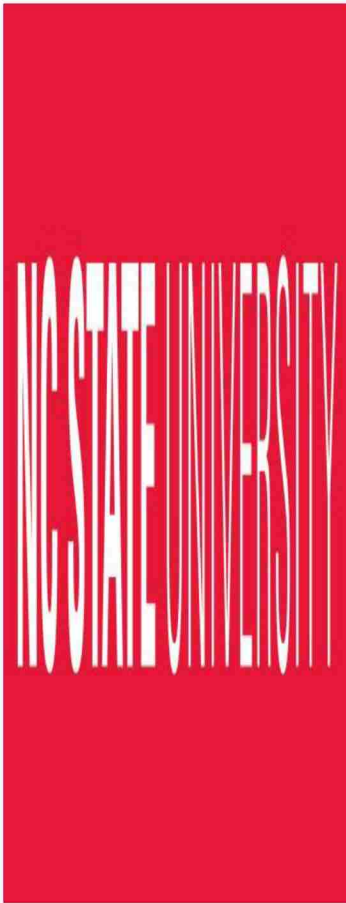
Speaker presentations and information about upcoming events will be posted on online. Learn more at [www.sustainablefleetexpo.com](http://www.sustainablefleetexpo.com).

**Thank you to our sponsors, exhibitors, and attendees. We look forward to seeing you at the 2018 Sustainable Fleet Technology Conference.**

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**Fayetteville Public Works Commission  
Releases RFQ for Community Solar Project**

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The NC Clean Energy Technology (NCCETC) team recently reached one of many milestones with a pilot project that will expand the deployment of community solar projects across the Southeastern United States. The Fayetteville Public Works Commission (PWC), the largest municipal utility in North Carolina, recently released a [Request for Qualifications \(RFQ\)](#) for developers and / or contractors to design and construct the utility's 1MW solar photovoltaic (PV) array, plus 500 kW storage project, as an outcome of the technical assistance provided by NCCETC.

The goal of the U.S. Department of Energy funded Community Solar for the Southeast project is to expand the deployment of solar projects across the southeast United States by spurring the development of community solar programs in the territory of cooperatives and municipal utilities. Community solar projects are ground-mounted PV systems that are generally smaller than other utility-scale solar projects. They are large enough to provide low-cost solar electricity, yet they are small enough to allow for flexibility of location, which allows the utility to leverage localized benefits.

**To learn more on how to participate and to see how the NCCETC can help with projects like these, please click [here](#).**

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**Upcoming Solar Education Meetings in  
North Carolina - Mark Your Calendar!**

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As utility scale solar installations continue to expand across, the NC Clean Energy Technology Center (NCCETC) is partnering with NC State University Cooperative Extension to conduct solar education forums. The two hour meeting features a presentation by NCCETC Executive Director Steve Kalland and ample time to answer attendee questions. In addition to providing an understanding of the development and operation of these solar electricity generating facilities, the presentation will explore what is known about the various impacts of these systems on the community and the environment. Common questions about PV panel toxicity, EMF/radiation, economic impacts, system decommissioning and more will be covered. Additionally, the characteristics that make a site most suitable for solar will be provided as well as an overview of solar land leases. A wide-range of individuals and occupations are encouraged to attend the meeting including elected officials, local government staff - county manager's, planning, permitting; landowners and the general public.

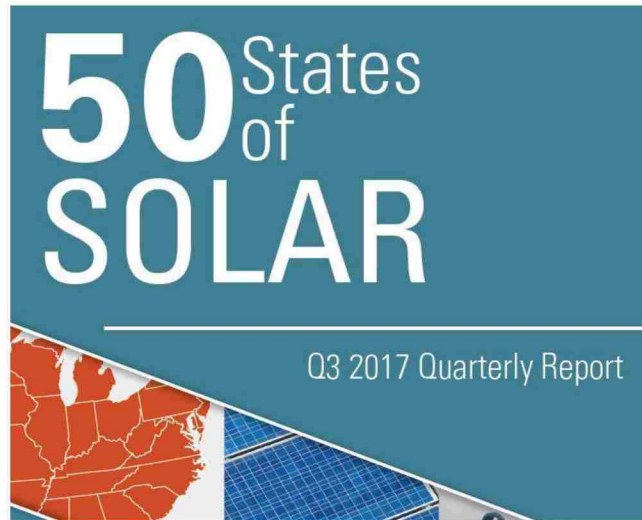
[Click here to see the next scheduled dates!](#)

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### **Q3 2017 Quarterly Report for 50 States of Solar**

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## Key Solar Policy Actions in Q3 2017

[View the Executive Summary](#)

[Purchase and view the Q3 2017 Update Report](#)

### Key Solar Policy Actions in Q3 2017

The report finds that 41 states and the District of Columbia took some type of solar policy action during Q3 2017 (see figure below). Specifically, the report finds that:

- 44 utility requests in 26 states plus D.C. to increase monthly fixed charges or minimum bills on all residential customers by at least 10% were pending or decided.
- 24 states considered or enacted changes to net metering policies.
- 19 states plus D.C. formally examined or resolved to examine some element of the value of distributed generation or the costs and benefits of net metering.
- 13 states took policy action on community solar.
- 14 utility requests in 7 states to add new or increase existing charges specific to rooftop solar customers were pending or decided.
- 5 states had action on utility-owned rooftop solar policies or programs.
- 1 state had policy action on third-party solar ownership laws or regulations.

Table 1. Q3 2017 Summary of Policy Actions

Policy Type	# of Actions	% by Type	# of States
Residential fixed charge or minimum bill increase	44	31%	26 + DC
DG compensation rules	36	25%	24
DG valuation or net metering study	23	16%	19 + DC
Community solar	18	13%	13
Residential demand or solar charge	14	10%	7
Utility-led rooftop PV programs	5	4%	5
Third-party ownership of solar	2	1%	1
<b>Total</b>	<b>142</b>	<b>100%</b>	<b>41 States + DC</b>

Note: The "# of States/ Districts" total is not the sum of the rows, as some states have multiple actions. Percentages are rounded and may not add up to 100%.

[Read more about this report](#)

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## Partners Support Low Income Energy Efficiency



At a recent meeting in Rocky Mount, project partners from the Center, Upper Coastal Plain Council of Governments (UCPCOG), the NC Sustainable Energy Association and Resispeak met with county social service directors and staff to demonstrate and discuss applications of the [Powering Energy Efficiency & Impacts Framework Project](#) database. NC State's Center for Geospatial Analytics is developing a GIS mapping application with energy use data from Roanoke Electric Cooperative and Wilson Energy and data from NC Department of Health and Human Services (NCDHHS) and the NC Department of Environmental Quality energy assistance related programs to improve energy efficiency in low income households. Year two of the project, which began in October and is focused on the five county UCPCOG region, will involve broader stakeholder engagement to better serve community needs. To learn more about the PEEIF project view a five slide overview [here](#)

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## Save-the-date!



## [2018 State Energy Conference of North Carolina](#)

April 17-18, 2018

Raleigh, NC

The State Energy Conference provides actionable insight into the business of energy, connecting technical innovation, diverse resources.

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and industry opportunity to help drive North Carolina's regional energy economy forward with national impact.

**Examine the impacts of energy technologies, policy and finance on customers at all levels of the energy marketplace:**

- Residential Homes
- Commercial and Industrial Energy Use
- Governmental and Institutional Buildings
- Utilities and Infrastructure
- Research and Innovation
- Renewable Energy

### Networking Reception with



Interested in sponsoring or exhibiting at the conference? Please contact [shannon\\_helm@ncsu.edu](mailto:shannon_helm@ncsu.edu) for more information.

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### Student Art Competition Submit now for the chance to be featured!



The Center is sponsoring a [student art contest](#) on the topic of ways that we can take action to reduce vehicle emissions. North Carolina students from kindergarten through college can submit artwork for the contest. Winners will have their artwork featured on billboards across



the state to help spread the word about ways that we all can help keep the air clean. Artwork can be submitted through Sunday November 26. After artwork is submitted, friends and family will have the opportunity to vote on it through social media. November 27 through December 10 will be the voting period. Submissions should be made [here](#) or by emailing Heather Brutz at [hmbritz@ncsu.edu](mailto:hmbritz@ncsu.edu).

Prizes will be given out by grade levels: elementary school (grades 5 and below), middle school (grades 6-8), high School (grades 9-12), college (students must be currently enrolled in a 2 or 4 year college or university).

Thank you for helping us persuade people to Keep Our Air Clean!

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